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16648Y/10 A35 F06 TEXTILFORSCH KREFELD EV 27.08.75-DT-538092 (03.03.77) D06m-10 D06m-15/36 Radiation chemical finishing of cellulosic and synthetic fibres - with liquor contg. vinyl cpd., sensitiser and solvent reduces exposure	TEKR 27.08.75 *DT 2538-092 A(10-E10, 11-C5C, 12-S5M) F(3-C2, 3-C2A, 3-C3, 91) pref. is also added. (III) is an alcohol, pref. EtOH, which is mixed with water in 40:60 ratio. The textile is loaded with 20-100% liquor.(10pp016).
<p>The finishing process esp. provides oleophobic, hydrophilic, soil-repellent, antistatic, low flammability and easy care properties, and involves treating the fibres or textile with a liquor contg. cpd(s). (I) with vinyl gps. and a sensitiser (II), then subjecting to UV radiation so that (I) adds to the textile, opt. drying and condensing and finally washing. The improvement comprises the use of a liquor contg. a solvent (III) and opt. water, and as (II), a carbonyl cpd. with UV adsorption in the 300-400 nm range. (II) pref. is a benzoin deriv. and is used in a concn. of 0.5-1 g/l.</p> <p><b>ADVANTAGE</b>          The UV exposure time is short enough to allow the process to be operated continuously.</p> <p><b>PREFERRED</b>          (II) is benzoin ethyl ether. (I) contains methylol gps. and pref. is <math>\text{CH}_2\text{CH}(\text{CO}(\text{NH}(\text{CH}_2\text{OH}))\text{CH}_2\text{OH})</math> (amt. 60 g/l.). <math>\text{MgCl}_2</math> hydrate (12 g/l.) is added as catalyst and dimethylolurea (40 g/l.).</p>	3-C4, 3-C5). DT2538092

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